

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

|   |  |  |
|---|--|--|
| Applicant's or agent's file reference<br><b>R029 141PCT</b> | <b>FOR FURTHER ACTION</b><br>see Form PCT/ISA/220<br>as well as, where applicable, item 5 below. |  |
| International application No.<br><b>PCT/US2004/033760</b>   | International filing date (day/month/year)<br><b>12/10/2004</b>                                  | (Earliest) Priority Date (day/month/year)<br><b>24/10/2003</b> |
| Applicant<br><b>GRAPHIC PACKAGING INTERNATIONAL, INC.</b>   |  |  |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 03 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 2

☐ as suggested by the applicant.

☒ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International application No. .

PCT/US2004/033760

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A fully enclosed carton for carrying heavy loads with a reinforcement insert (58a, 58b) for the handle apertures (50a, 50b) located in the top end flaps (38, 40) of the carton. The paperboard reinforcing insert may be extended as a bridge across the top panel (14) of the carton to prevent tearing of the handle apertures in the top end flaps and also tearing in the top panel (14) of the carton when carrying a heavy load. The carton may have one or more dispensers (70a, 70b) in the top panel which may extend into an adjoining side panel (12, 18). Multiple tear lines may be formed for the dispenser flap in the insert that extends across the top panel to permit easy access to the containers, such as bottles, in the carton. The paperboard reinforcing insert may have a larger aperture (60a, 60b) than the handle aperture in each top end flap to adjust for any imprecision in the alignment of the paperboard insert in forming the carton sleeve from the paperboard blank. When the paperboard insert extends across the top panel and one or more dispensers are formed in the top panel, multiple tear lines may be used to form the flaps in the insert to compensate for any imprecision in the insertion of the insert that extends across the top panel into the carton sleeve when it is being formed.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/033760

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B65D71/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B65D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.   |
|------------|--|---|
| A          | DE 93 12 950 U1 (HERZBERGER PAPIERFABRIK<br>LUDWIG OSTHUSHENRICH GMBH & CO KG, 37412<br>HERZB) 21 October 1993 (1993-10-21)<br><br>page 5, line 8 - page 6, line 10; figure 6<br>page 8, paragraph 2 | 1-3,<br>9-11,<br>16-18,<br>21,22,<br>27,29,<br>33-35                |
| A          | US 6 170 741 B1 (SKOLIK BERNHARD ET AL)<br>9 January 2001 (2001-01-09)<br><br>column 4, line 54 - column 5, line 10;<br>figures  | 1,3-5,<br>7-10,12,<br>14-17,<br>19,21,<br>23,<br>25-28,<br>30,34,35 |



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\* & \* document member of the same patent family

Date of the actual completion of the international search

14 April 2005

Date of mailing of the international search report

27/04/2005

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/033760

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date       |
|---|---------------------|----------------------------|---------------------------|
| DE 9312950                                | U1                  | 21-10-1993                 | NONE                      |
| US 6170741                                | B1                  | 09-01-2001                 | DE 29815677 U1 19-11-1998 |
|   |                     |                            | DE 59904028 D1 20-02-2003 |
|   |                     |                            | DK 983946 T3 12-05-2003   |
|   |                     |                            | EP 0983946 A2 08-03-2000  |